1111 1

2358/ RF 94 States Government

Department of Energy

NE)ATE

DIST

BURLINGAME AH

LTR EVO

morandum Ser 19 3 00 AN PSO Rocky Flats Field Office

ACTION

BUSBY WS CARNIVAL, G.

CORDOVA R C DAVIS J G

FERRERA, DW FRAY RE GEIS, J A

GLOVER WS

HUTCHINS, N M

JACKSON DT

KUESTER AW

McKENNA, F G MORGAN, RV

PIZZUTO, V M POTTER GL

SANDLIN, N B

SCHWARTZ, J K <u>SETLOCK, G H</u>

STIGER, S.G. TOBIN P.M VOORHEIS, G.M. WILSON, J M

SATTERWHITE, D.G. SCHUBERT AL

Schubbe D.L.

Hollowell. L.

KELL RE

MARX GE McDONALD, M M

GOLAN, PM

HANNI BJ HEALY, TJ HEDAHL T.G. HILBIG J.G. SEP 1 6 1994

CORFESPONSE OF OF

ER WNF 09675

Transmittal of Comments on the Draft Phase I RCRA Facility Investigation/Remedial Investigation Report for Operable Unit 15, "Inside Buildings Closures"

Sue G Stiger, Director Environmental Restoration Program Division EG&G Rocky Flats, Inc

This document transmits the Department of Energy/Rocky Flats Field Office comments for Operable Unit 15 (OU 15) on the subject report. The most important question raised by the comments is the radionuclide contamination in Individual Hazardous Substance Sites (IHSS) 204, the Original Uranium Chip Roaster It is our understanding that the radiation emitted in the rooms comprising this IHSS may exceed the radiation worker protection levels in 10CFR835, DOE Order 5480 11, and 29CFR1910

The statement is made in the draft Phase I RCRA Facility Investigation/Remedial Investigation Report that "none of the radionuclide results exceeded the standards provided in the Applicable or Relevant and Appropriate Requirements " In the case of IHSS 204, this is probably incorrect

We need to make the statements in the report agree with the reality of the situation

Frazer R Lockhart, Director Major Systems Acquisition Division Environmental Restoration

Attachments

cc w/Attachments R J Hyland, RTG D L Schubbe, EG&G

ORRES CONTROL XX DMN RECORD/080 PATS/T130G

cc w/o Attachments J M Roberson, AMER, RFFO W N Fitch, ER, RFFO A L Primrose, EG&G

Reviewed for Addressee Corres Control RFP

Ref Ltr #

ADMIN RECORD

Comments of William N Fitch draft Phase I RFI/RI Report Operable Unit 15 Inside Building Closures

page	paragraph	line	
ES-4	1	4	The sentence stating "None of theIHSSs showed radionuclide activity levels of regulatory concern" is incorrect IHSS 204 is radioactive at levels requiring radiation control. I know that the plan is to leave the cleanup for rads to the people using the uranium chip roaster people after they use it some more but. I need some evidence that the roaster is planned for future use
ES-5	2	Item 4	Is the chip roaster and its rooms in compliance with the ARARs of rad worker protection standards. The statement in item 4 is not correct.
ES-6	2	Item 9	While the statement "the IHSSs do not exceed rad protection standards applicable under current land use " is technically correct you need to at the caveat "if institutional and engineering safe guards remain in place "
1-5	1	Item 1	Delete "and need a RCRA -operating permit" and insert "as a 90-day storage unit" and "sites" to "site" in the first of the sentence
1-8	1	7	If there is a threat of a post-closure escape, then a BRA is required Can we separate the lack of a cleanup of the chip roaster from this need for a BRA?
1-8	2	Item 2	The SOW states additional work is necessary at an IHSS when there is a threat of post-closure escape hazardous waste, etc. This is not a problem in my opinion. The threat should be contained by the building rad control program. But regulatory controls need to be formally in place for the chip roaster.
1-14	5	last senter	The statement "therefore, remedial alternative development was not necessary" does not consider IHSS 204
4-19		all bullets	The discussion states that Chi squared of 4 04 indicates that the alpha data is valid at the 99 per cent confidence level, but not at a95 percent confidence level Please explain how this can be It does not agree with my understanding of statistics Perhaps I need a refresher The same problem occurs in the second bullet

5-25	3	Step 3	Seven of the sampling areas failed the screening limit for beta There is potential for some rad to be in the floor. Further work is needed, looking under the paint.
5-27	2	See Figur	re 5-16 Table shows rinsate samples with gross alpha of 6400 pCi/L and Uranium 238 of 7600 pCi/L
5-29	4	5	There is a hint of rad in IHSS 180
7-2	2	8	If the equipment in the Chip Roaster Room is not used again, who will be responsible for the radiation cleanup? The ARAR's for radiation are currently exceeded Will a HHRA be required in the future?
7-3	1	2	It seems that the radiation data does exceed the ARAR in 204 Will a BRA be required?
8-2		Item 4	The statement that the IHSSs are in compliance with ARARs for rad is not correct in IHSS 204
8-3		Item 9	The Statement "There is no current or imminent threat at the OU15 IHSSs under the current land use " is misleading. The phrase "and the administrative controls in place." should be added to this statement.

AMER Forn 91-01 Rev 2, 05/13/92

AMER REVIEW OF TECHNICAL DOCUMENTS

REVIEW COMMENT RECORD

*Comment Type E = Essential (agreement must be documented for other than verbatim incorporation), S = Suggested, Non-C = Nonconcurrence Agreement with Dispositions Document Preparer Phone x2136 Reviewer Date Organization RTG/DOÉ — RFFO/ER Date Septembal 8/1994 Reviewer R L-Hyland Signature & Document Reviewed (Title, Number, Revision, Date, etc.) OU-15, Draft Phase I RFI/RI Report August, 1994

Disposition	Coposition														
Comment		Response Draft Phase I TM-1 Comment #11 to Page 3-3, 1st para - CO2 1s 1dentified as a VOC Is this a	misprint, typo, etc Final Phase I TM-1 Comment #4	The sentence may have been corrected but the concept still nersists CO is identified as a COC for 111SSs 179 and	180 in Subsection 5 1 2 CO2 is present in all IHSSs and	is, in fact, present in the atmosphere. Am I missing	something here or is this a typo, misprint or mistake made	previously that has been carried on? If CO ₂ is in fact a	COC then some form explanation should be included in the	write-up If it should be Carbon Tetrachlonde then it	should be changed If this is a typo/mistake that has been	carried through for some unknown reason then it should be	addressed, in some logical fashion, before the release of	the RI/RFI Report and the ensuing public comment If I	am confused, so shall they be
Sect /Para	ONT	Response to	Ongmal Com-	ments											
Comment Comment Sect /Para	~1,7.b~	3													
Comment	211	-													

Document Reviewed (Title, Number, Revision, Date, etc.)	Reviewer R Hyland	Agreement with Dispositions
OU-15, Draft Phase I RFI/RI Report	Date September 8, 1994 Phone	Phone x2136 Reviewer.
August, 1994	Organization RTG/DOE — RFFO/ER	A Document Preparer.

Disposition						Ð.	S			
Comment	Draft Ph-I AND THE SAGA CONTINUES RFI/RI	The last line of the last paragraph refers to CO ₂ as a VOC	CO ₂ is identified as a constituent of concern	ΜΗΛιιιιιί	Why is CO ₂ still identified as a contaminant? A logical explanation why CO ₂ is considered to be a contaminant	should be included in the Final Phase I RFI/RI Report document or the call out of CO ₂ as a contaminant should be	dropped from the document. It makes little sense to identify something that surrounds us in the environment as	a contaminant without an explanation Failure to respond to this comment may jeopardize the delivery of the	document to the regulators This comment was made	pertinent to the May, 1994 Final Phase I TM-1 and not adequately responded too
Sect./Para No	Draft Ph-I RFI/RI	Report Sect 2,	Pg 7/28 Para 2 2 1	Sect 5.	Pg 5/92 Para	5.1 1 3				
Comment Type*	田									
Comment No	1 (cont)									

Document Reviewed (Title, Number, Revision, Date, etc.)	Reviewer R. Hyland	Agreement with Dispositions
OU-15, Draft Phase I RFI/RI Report	Date September 8, 1994 Phone x2136 Reviewer	Date Reviewer
August, 1994	Organization RTG/DOE — RFFO/ER	Document Preparer

Disposition			
Comment	Draft Phase I TM-1 Comment #20 As a general comment - The term "Error" is used but not defined or stipulated in some other manner Is this term "±"? Is it in % or some other units? Please define.	Final Phase I TM-1 Comment #5 The definition as presented on page 1x of x1 1s weak It 1s hard to comprehend this explanation in either terms of a ± percent or a confidence level The fact that there are counting errors 1s well known The degree of error differs with different machines, analyses, etc. Statistically what 1s the error in definitive terms?	"Error" – Are there any percent or units associated with the values shown? Two standard deviations usually means counts. Please expand
Sect./Para No.	Response to Com-	TOC and	Sect 4 pg 22/44 Tbl 4-2, et al
Comment Sect./Para Type* No.	ದ		
Comment	7		

Reviewer R Hyland Agreement with Dispositions	Date: September 8, 1994 Phone x2136 Reviewer	Organization RTG/DOE — RFFO/ER Document Preparer
Document Reviewed (Title, Number, Revision, Date, etc.) R	OU-15, Draft Phase I RFI/RI Report	August, 1994

_		~~~~							
	Disposition								
	Comment	The CDH is now the Colorado Department of Public Health and Environment (CDPHE)	The RFP is now the "Rocky Flats Environmental Technology Site (Site)" It is currently understood that the DOE Site Manager does not like "RFETS" since it presents the connotation of "Rocky Flats Eats"	The entire document should be cleansed of the old and the new inserted Additionally, the "List" should be modified to reflect the new	The acronym "WSRIC" is used in the document and not apparently defined either in the text or the "List".	The listing is incomplete. There are numerous instances in the document where a document is referenced and it is not identified in the "List."	Last Paragraph, 1st line The complete name of the Work Plan should be used This is true for the rest of the document also Additionally, the Work Plan is not identified as a Reference	First Paragraph, last sentence The wording is questionable For one thing everything is of a regulatory concern, there is no such thing as BRC for either the EPA or the CDPHE at the Site The second thing	the statement is not true
Sect./Para		General and	List of Acronyms				Executive Summary Page 2/6 et al	Executive Summary Page 4/6	
Comment	Type*	Ш				ਸ਼	ਸ਼	ਧ	
Comment	No	3				4	S	9	

Document Reviewed (Title, Number, Revision, Date, etc.)	Reviewer R Hyland	Agreement with Dispositions
OU-15, Draft Phase I RFI/RI Report	Date September 8, 1994 Phone x2136 Reviewer	Reviewer
August, 1994	Organization RTG/DOE — RFFO/ER	Document Preparer.

Comment	Comment Sect /Para	Sect /Dara		
		No	Comment	Disposition
	-3/C			
	щ	Executive	Conclusion #4	
		Summary	[HSSs 179 and 204 may not fit this statement	
		Page 5/6		
∞	E	Executive	Conclusion #5	
		Summary	According to the DOE H&S folks, the term standard for Be	
		Page 5/6	on the surface is not accurate. The proper terminology is	
)	"an accepted and achievable cleanliness level" The term	
			standard apparently connotates some form of regulatory	
			level, which does not exist for Be surface contamination	
			There is a 29CFR1910 (OSHA) Be airborne level, which	
			1s a standard This needs to be clarified Also HSP 13 04	
-			may utilize both the OSHA Standard and the industry	
			accepted cleanliness level	
6	田	Executive	Conclusion #8	
		Summary	The EPA RPM has publicly disputed this stance and it is	
		Page 6/6	doubtful that you will be able to prove this conclusively	
		2 2 2	The backup statement is true as long as certain conditions	
			are met. These conditions will preclude the unrestricted	
			release for radionuclides or even the restricted use without	
			Institutional controls or engineered safeguards in place	
			For radionuclides 10CFR20, Appendix B criteria are being	
			used These criteria are for radiation workers and by their	
			very nature imply institutional controls	
			O# #000110#00	
			See above The selling of IHSS 204 to the regulators	
			based upon the explanatory statement will be a good trick	

Document Reviewed (Title, Number, Revision, Date, etc.)	Reviewer R Hyland	Agreement with Dispositions.
OU-15, Draft Phase I RFI/RI Report	Date September 8, 1994 Phone x2136 Reviewer	Reviewer
August, 1994	Organization RTG/DOE — RFFO/ER	Document Preparer

Disposition				
Comment	Three categories of IHSSs are identified, however, IHSSs 211 does not appear to fall into any of these categories since it is an in-use 90 Storage Area that will continue to be used after RCRA Clean Closure	Last Paragraph This statement presents basic point of contention between EG&G and the EPA relative to CERCLA Closure for radionuclides	Forth set of Blocks The IAG SOW Requirement First Bullet is incomplete The last sentence of the RFI/RI Disposition is inconsistent with the Second Bullet of the IAG SOW Requirement, if the regulators consider that radionuclides are Hazardous Constituents	Section 3 0 – OU-15 ARARs Work Plan Commitment does not identify 29CFR1910 96, which is also an ARAR RFI/RI Disposition The term "dose-rate" is identified A more precise term would be the dose-rate for Radiation Workers or words to this effect.
Sect./Para No	Sect 10 Para 114 Page 5/21	Sect 10 Para 1 2 1 Page 8/21	Sect 1 0 Table 1-1 Page 11/21	Sect 1 0 Table 1-2 Page 13/21
Comment Type*	ш	Щ	ជា	団
Comment No	10		12	13

Document Reviewed (Title, Number, Revision, Date, etc.)	Reviewer. R Hyland		Agreement with Dispositions
OU-15, Draft Phase I RFI/RI Report	Date September 8, 1994	Phone x2136 Reviewer	Date Reviewer
August, 1994	Organization RTG/DOE — RFFO/ER		Document Preparer

	Disposition		
	Dispo		
	Comment	Section 5 0 – RFI/RI Tasks, Third Bullet The acronym "WSRIC" is used and not identified in the "List" RFI/RI Disposition This last sentence may not be true for IHSS 204 Initially the assumption was made that the Original U Chip Roaster would be reused after RCRA Clean Closure to process U Chips. This assumption may not be valid in that the Roaster has been identified as a potential source of radioactive scrap metal (RSM) for the NCPP A final resolution needs to be made relative to the status of IHSS 204 in the light of current events and the "real world." Is it to be RCRA Clean Closed and reused or is it to be RCRA Clean Closed and await decontamination and removal? And if it is the latter, who will do it — the NCPP Stage III Contractor or the Integration Contractor?	Sect 1 0 Section 7 0 – FSP Table 1-2 Differences exist between the Work Plan Commitment and the RFI/RI Disposition — One side uses Arabic Numerals for the Stages the other Roman Is this really the way they are?
Sect /Para	No		Sect 1 0 Table 1-2 Page 15&16/21
Comment Comment Sect /Para	Type*	ਸ਼	ជា
Comment	No	14	15

Reviewer R Hyland	Date September 8, 1994 Phone x2136 Reviewer	Organization RTG/DOE — RFFO/ER Document Preparer
Document Reviewed (Title, Number, Revision, Date, etc.)	OU-15, Draft Phase I RFI/RI Report	August, 1994

Disposition				
Comment	Section 10 0 – QA Addendum OPS-FO 03 is identified in both the Work Plan Commitment and the RFI/RI Disposition, however, it could not be found to be identified in the Final Phase I RFI/RI Work Plan (WP). Is OPS-FO 03 a regulatory approved procedure? If so, what approved change to the WP incorporates this procedure? SOP FO.27 is also identified but not specifically called out in the WP. A review of SOP-FO 27 did not identify that either it or the DCNs to had been approved by the regulators. It appears that your "Trail of Bread Crumbs" is not fully defined, in that completely "approved procedures" may not exist. Because this could impact the final document please investigate and explain	Third Bullet, 2nd to last line The term — "runoff" (inside buildings) — is used Does this term mean runoff from the outside coming into the building or is there actually runoff inside of the building?	Source Characteristics, 2nd sentence Recommend that the wording be made a bit stronger— Change " are believed to have occurred . " to " have been identified . "	Second Paragraph, last sentence As this sentence reads it means that the concrete floor was scuffed and in poor condition. You probably meant to say that the paint was scuffed and in poor condition. Please clarify the sentence
Sect./Para No	Sect 1 0 Table 1-2 Page 18/21	Sect 2 0 Para 2 1 Page 2/28	~	Sect 2 0 Para 2 4 2 Page 12/28
Comment Type*	Ħ	ਬ	ப	ш
Comment No	16	17	18	19

المتحاسة كالمستفاء بتكلك تتسفد فكالمقات للأملاك يتباهلها كالمقاسد بعمصم بأسقاء مستحد

Document Reviewed (Title, Number, Revision, Date, etc.)	Reviewer R Hyland	Agreement with Dispositions
OU-15, Draft Phase I RFI/RI Report	Date September 8, 1994 Phone x2136 Reviewer	Date Reviewer
August, 1994	Organization RTG/DOE — RFFO/ER	Document Preparer

Disposition					
Comment	First Paragraph EG&G SOP SW 2 is not identified in the WP Has its use been approved by the regulators?	Last Paragraph page 8 and Top Paragraph page 9 What procedures are associated with the instrumentation identified and are these procedures identified in the WP?	Bottom of page "dissolved radionuclides" are identified but not specifically identified Since U is the primary radiological COC shouldn't the CLP Protocol be identified?	Top Paragraph Add a space at the end of the paragraph	First Sentence SOP FO 27 is identified See Comment #16 above
Sect /Para No	Sect 3.0 Para 3.3.2 Page 8/36		Sect. 3 0 Para. 3 4 Page 9/36	Sect 3.0 Para 3.5 Page 11/36	Sect 4 0 Para 4 2 1 Page 4/44
Comment Type*	ਜ਼	Ħ	闰	Щ	ш
Comment No	24	25	26	27	28

Document Reviewed (Title, Number, Revision, Date, etc.)	Reviewer R Hyland	Agreement with Dispositions
OU-15, Draft Phase I RFI/RI Report	Date September 8, 1994 Phone x2136 Reviewer	Date Reviewer
August, 1994	Organization RTG/DOE — RFFO/ER	Document Preparer

Disposition							
Comment	First Bullet The write-up is confusing and does not appear to be in accordance with the explanation on the proceeding page, i.e., how can you have something that is valid at a confidence level of 99% and yet not be valid at a confidence level of 95%? This does not appear to valid statistically	Last Paragraph, last full sentence Do you really want to acknowledge that there is contamination under the paint? This position is counter to your ER 2000 "No Action" position	There appears to be missing data in the tables, please check and add as appropriate		Top Paragraph RAGS Part A 1s not in the References What 1s 1t?	First Daragraph 1 act contanga	The levels in IHSS 204 appear to exceed the specified radiation protection standards. They definitely exceed Reg Guide 1 86 and DOE Order 5480 11 surface contamination levels. How can you make this statement?
Sect /Para No	Sect 4 0 Para 4 2 3 Page 19/44		Sect 40 Tbls 4-2	thru 4-6 Page 19/44	Sect 5 0 Para 5 1 2	Page 6/92	Para 5 2 1 Page 15/92
Comment Type*	ជា		ഥ		ਜ਼	Ţ	1
Comment No	29		30	,	31	32	3

Document	Reviewed (7	Fitle, Numbe	Occument Reviewed (Title, Number, Revision, Date, etc.)	Reviewer R Hyland		Agreement with Dispositions
OU-15, Di	OU-15, Draft Phase I RFI/RI Report	RFI/RI Repo	ц.	Date September 8, 1994	Phone x2136 Reviewer	Date Reviewer
August, 1994	94			Organization RTG/DOE — RFFO/ER	RFFO/ER	Document Preparer
Conament No	Comment Sect /Para No Type* No	Sect /Para No		Comment		Disposition
33	Ε	Sect 50 Table	Table		-	

K		1000 Mong		
No No	Comment Type*	Sect/Fara No	Comment	Disposition
33	ഥ	Sect 5 0 Para 5 2 1 3 Page 20/92	Table The proper DAC values for Radiation Workers extracted from 10CFR20, Appendix B, Table 1, Rev Jan 1, 1994 are: Am ²⁴¹ — 3 00 E- ¹² μCι/ml (soluble) Ra ²²⁶ — 3 00 E- ¹² μCι/ml (soluble) Pu ²³⁹ — 3 00 E- ¹² μCι/ml (soluble) U ²³³ — 5 00 E- ¹⁰ μCι/ml (soluble) U ²³⁴ — 5 00 E- ¹⁰ μCι/ml (soluble) U ²³⁵ — 6 00 E- ¹⁰ μCι/ml (soluble) U ²³⁶ — 6 00 E- ¹⁰ μCι/ml (soluble)	
			Since these values differ somewhat from those used, how will their use affect the screening process? Please explain in detail. This information will be needed to get Final Phase I RFI/RI Report through ESH	
		Page 21/92	Paragraph No 2 The value used for Pu is wrong if the above is correct	
34	E	Sect 5 0 Para 5 2 5 Page 27/92	Second Paragraph It is not at all certain that IHSS 204 will remain as an operational RCRA unit in the building Please check and identify what is going to actually going to happen to the Chip Roaster. It may have to be RCRA Clean Closed and the Part B Permit modified in any event	

Uocument Reviewed (Title, Number, Revision, Date, etc.)	Reviewer R Hyland	Agreement with Dispositions.
OU-15, Draft Phase I RFI/RI Report	Date September 8, 1994 Phone	Phone x2136 Reviewer
August, 1994	Organization RTG/DOE — RFFO/ER	ER Document Preparer